



PIPING CONNECTOR

BACKGROUND OF THE INVENTION

1. Field of the Invention

5 The present invention relates to a piping connector preferably used in a fluid pipe in, for example, a cooling system or an intake system of an engine of an automobile.

2. Description of the Related Art

10 In connecting to, for example, a radiator hose or the like of an automobile, there is widely utilized a piping connector (pipe joint) made to be connected in one touch motion by only inserting a plug attached to an end portion of other pipe into a socket attached to an end portion of one pipe.

15 For example, in JP-A-10-9470, there is disclosed such a piping connector in which an outer peripheral groove is provided at an outer periphery of a female pipe (socket), the outer peripheral groove is provided with notched grooves penetrating inner and outer diameters and opposed
20 to each other by a necessary angle, a stop piece arm (stopper) is engaged with a valley peripheral diameter portion of an unnotched groove portion, respective locking arms extended from the stop piece arm are made to span the respective notched grooves to lock, and portions of
25 the respective locking arms are projected into the female

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